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21 [Ontology and the Semantic Web](#)

[Robert M. Colomb](#)

June Proceeding of the 2007 conference on Ontology and the Semantic Web 2007

Publisher: IOS Press
 Additional Information: [full citation](#), [references](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

22 [FENECIA: failure endurable nested-transaction based execution of composite Web services with incorporated state analysis](#)

[Neila Ben Lakhal](#), [Takashi Kobayashi](#), [Haruo Yokota](#)

 January **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 18 Issue 1 2009
Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (2.46 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 103, Downloads (Overall): 103, Citation Count: 0

Interest in the Web services (WS) composition (WSC) paradigm is increasing tremendously. A real shift in distributed computing history is expected to occur when the dream of implementing Service-Oriented Architecture (SOA) is realized. However, there ...

Keywords: Composition, Dependability, Distributed execution, Failure, QoS, Transaction model, Web services

23 [Survey of graph database models](#)

[Benzo Angles](#), [Claudio Gutierrez](#)

 February 2008 **Computing Surveys (CSUR)**, Volume 40 Issue 1
Publisher: ACM [Request Permissions](#)

Full text available: Pdf (1.59 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 180, Downloads (12 Months): 1673, Downloads (Overall): 4114, Citation Count: 4

Graph database models can be defined as those in which data structures for the schema and instances are modeled as graphs or generalizations of them, and data manipulation is expressed by graph-oriented operations and type constructors. These models ...

Keywords: Database systems, database models, graph database models, graph databases, graph integrity constraints, graph query languages

24 [Model-driven development of Web applications: the AutoWeb system](#)



[Piero Fraternali](#), [Paolo Paolini](#)

October 2000

Transactions on Information Systems (TOIS) , Volume 18 Issue 4

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (6.94 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 389, Downloads (Overall): 4701, Citation Count: 25

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, ...

Keywords: HTML, WWW, application, development, intranet, modeling

25 [Secure and selective dissemination of XML documents](#)



[Elisa Bertino](#), [Elena Ferrari](#)

August 2002

Transactions on Information and System Security (TISSEC) , Volume 5 Issue 3

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (678.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 173, Downloads (Overall): 1813, Citation Count: 42

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared ...

Keywords: Access control, XML, secure distribution

26 [Ontology-based models in pervasive computing systems](#)

[Juan Ye](#), [Lorcan Coyle](#), [Simon Dobson](#), [Paddy Nixon](#)

December 2007

The Knowledge Engineering Review , Volume 22 Issue 4

Publisher: Cambridge University Press

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 3

Pervasive computing is by its nature open and extensible, and must integrate the information from a diverse range of sources. This leads to a problem of information exchange, so sub-systems must agree on shared representations. Ontologies potentially ...

27 [Multi-level Editing of Hierarchical Documents](#)

[Claudia-Lavinia Ignat](#), [Maira C. Norrie](#)

December 2008

Computer Supported Cooperative Work , Volume 17 Issue 5-6

Publisher: Kluwer Academic Publishers

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

Collaborative editing enables a group of people to edit documents collaboratively over a computer network. Customisation of the collaborative environment to different subcommunities of users at different points in time is an important issue. The model ...


Keywords: asynchronous collaborative editing, computer-supported cooperative work, consistency maintenance, merging of hierarchical documents, multi-level editing, operational transformation, real-time collaborative editing

28 [Business-to-business interactions: issues and enabling technologies](#)

[B. Medjahed, B. Benatallah, A. Bouquettaya, A. H. H. Ng, A. K. Elmagarmid](#)

May **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1
2003

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (558.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 56, Downloads (12 Months): 705, Downloads (Overall): 10631, Citation Count: 29

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

29 [Integrating XML and Relational Database Systems](#)

[Gerti Kappel, Elisabeth Kapsammer, Werner Retschitzegger](#)

December 2004 **World Wide Web**, Volume 7 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  Publisher Site

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 3

Relational databases get more and more employed in order to store the content of a web site. At the same time, XML is fast emerging as the dominant standard at the hypertext level of web site management describing pages and links between them. Thus, ...


Keywords: XML, generic integration, heterogeneity, meta schema, relational database system

30 [Integrating document and data retrieval based on XML](#)

[Jan-Marco Bremer, Michael Gertz](#)

January **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 1
2006

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (841.10 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 193, Downloads (Overall): 874, Citation Count: 1

For querying structured and semistructured data, data retrieval and document retrieval are two valuable and complementary techniques that have not yet been fully integrated. In this paper, we introduce integrated information retrieval (IIR), an XML-based ...


Keywords: Data retrieval, Document retrieval, Index structures, Integrated information retrievals, Structural join, XML

31 [Network Access to Multimedia Information](#)

[C. Adie](#)

May 1994 **Network Access to Multimedia Information**

Publisher: RFC Editor

Full text available:  Txt (187.25 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 7, Downloads (Overall): 64, Citation Count: 1

This report summarises the requirements of research and academic network users for network access to multimedia information. It does this by investigating some of the projects planned or currently underway in the community. Existing information systems ...

32 [Structured hypertext with domain semantics](#)[Weigang Wang, Roy Rada](#)

October 1998

Transactions on Information Systems (TOIS) , Volume 16 Issue 4**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (593.99 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 64, Downloads (Overall): 519, Citation Count: 8

One important facet of current hypertext research involves using knowledge-based techniques to develop and maintain document structures. A semantic net is one such technique. However, most semantic-net-based hypertext systems leave the linking consistency ...

Keywords: graph theory, hypertext models, hypertext structures

33 [Agent orientation in software engineering](#)[Gerhard Weis](#)

December 2001

The Knowledge Engineering Review , Volume 16 Issue 4**Publisher:** Cambridge University PressAdditional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 10

Agent-Oriented Software Engineering (AOSE) is rapidly emerging in response to urgent needs in both software engineering and agent-based computing. While these two disciplines coexisted without remarkable interaction until some years ago, today there ...

34 [XML stream processing using tree-edit distance embeddings](#)[Minos Garofalakis, Amit Kumar](#)

March 2005

Transactions on Database Systems (TODS) , Volume 30 Issue 1**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (726.56 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 129, Downloads (Overall): 1129, Citation Count: 4

We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution ...

Keywords: XML, approximate query processing, data streams, data synopses, metric-space embeddings, tree-edit distance

35 [A comprehensive approach for the development of modular software architecture description languages](#)[Eric M. Dashofy, André van der Hoek, Richard N. Taylor](#)

April 2005

Transactions on Software Engineering and Methodology (TOSEM) , Volume 14 Issue 2**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (3.51 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 45, Downloads (12 Months): 398, Downloads (Overall): 2573, Citation Count: 13

Research over the past decade has revealed that modeling software architecture at the level of components and connectors is useful in a growing variety of contexts. This has led to the development of a plethora of notations for representing software ...

Keywords: ArchStudio 3, Architecture description languages, XML, xADL 2.0

36 [The UCON_{ABC} usage control model](#)



[Jaehong Park, Ravi Sandhu](#)

February **Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 1
2004

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (518.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 311, Downloads (Overall): 2340, Citation Count: 46

In this paper, we introduce the family of UCON_{ABC} models for usage control (UCON), which integrate *Authorizations (A)*, *oBligations (B)*, and *Conditions (C)*. We call these core models because they address the essence of UCON, leaving ...

Keywords: access control, digital rights management, privacy, trust, usage control

37 [Monadic datalog and the expressive power of languages for Web information extraction](#)



[Georg Gottlob, Christoph Koch](#)

January **Journal of the ACM (JACM)**, Volume 51 Issue 1
2004

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (277.94 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 86, Downloads (Overall): 1475, Citation Count: 17

Research on information extraction from Web pages (wrapping) has seen much activity recently (particularly systems implementations), but little work has been done on formally studying the expressiveness of the formalisms proposed or on the theoretical ...

Keywords: Complexity, HTML, MSO, expressiveness, information extraction, monadic datalog, regular tree languages, web wrapping

38 [Modeling and language support for the management of pattern-bases](#)

[Manolis Terrovitis, Panos Vassiliadis, Spiros Skladopoulos, Elisa Bertino, Barbara Catania, Anna Maddalena, Stefano Rizzi](#)

August **Data & Knowledge Engineering**, Volume 62 Issue 2
2007

Publisher: Elsevier Science Publishers B. V.

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 3

Information overloading is today a serious concern that may hinder the potential of modern web-based information systems. A promising approach to deal with this problem is represented by knowledge extraction methods able to produce artifacts (also called ...

Keywords: Data models, Knowledge warehousing, Pattern bases, Pattern-Base Management Systems

39 [Ontology mapping: the state of the art](#)

[Yannis Kafoglou, Marco Schorlemmer](#)

January 2003 **The Knowledge Engineering Review**, Volume 18 Issue 1

Publisher: Cambridge University Press

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 75

Ontology mapping is seen as a solution provider in today's landscape of ontology research. As the number of ontologies that are made publicly available and accessible on the Web increases steadily, so does the need for applications to use them. A single ...

40 [Service oriented architectures: approaches, technologies and research issues](#)

[Mike P. Papazoglou, Willem-Jan Heuvel](#)

July 2007 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 16 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  [Pdf](#) (818.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 175, Downloads (12 Months): 2245, Downloads (Overall): 4954, Citation Count: 21

Service-oriented architectures (SOA) is an emerging approach that addresses the requirements of loosely coupled, standards-based, and protocol- independent distributed computing. Typically business operations running in an SOA comprise a number of invocations ...

Keywords: Application and service integration, Asynchronous and event-driven processing, Enterprise bus, Service oriented architecture, Web services

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